INSTRUCTION

Professional Manufacturer Of

Commercial Refrigerator

This instruction offer the information about kinds of fan cooling upright series, fan cooling display series and worktable series.

Please note the contain in this instruction, follow and execute each step in order to keep the refrigerator in the best situation.

Product transport and install

- Transport

During loading and delivery, refrigerators cannot be reverse or lying down. The angle that between product and ground must equal or more than 45 degree. Please remark to put vertically for 2 hours after transport when your first time turn on the refrigerator.

- Removal of redundant refrigerators

Please ensure that old or redundant refrigerator and equipment are disposed of safely and legally. We recommend that the first step is the door must be removed to ensure safety.

- Unpacking

Remove all external and interior packing and accessories, ensure all such material is disposed of safely.

- Ventilation

It is essential to ensure that the room in which the unit is to be install has adequate ventilation,just because the refrigerator generate a considerable amount of heat. If operated in a small unventilated room in warm weather, these will quickly cause the room temperature to become excessive. This could cause the compressor to overheat and possibility damage the coil, also make refrigerators consume large energy. 500~600L model usually generate 1200W heat, 900~1200L model usually generate 1800W heat and 1500~1600L model usually generate 2400W heat while running. (These figures are approximate)

In addition to ventilation in a room, please ensure that refrigerator placed at the top of the refrigeration system have 500mm distance between top of refrigerator and the ceiling for engineer access and ventilation. For all other refrigerators please ensure a minimum adequate distance of 50mm is provided around the unit efficient and effective performance. Do not block vents by stacking boxes on top or in front of unit as this could affect performance.

- Leveling/Castors/Feet

The refrigerator should stand level to ensure correct operation of self-closing doors and proper drainage of condensate from the evaporator. The refrigerator has assemble unified castors cannot be adjusted, therefore must be placed in the same horizontal plane. Pressed the brake of the castors down to fixed refrigerator. When you want to move the refrigerator, please remark to release the brake first. For the refrigerator with bullet foot, to strike a balance by adjusting the bottom of the foot.

- Mains connection

Please use the professional plug with a grounding function to ensure safety. If you find any damage of plug and power cord, it is recommended to contact us to replace parts. If refrigerator is tipped over or reverse, please don't turn on the switch immediately. Put the refrigerator vertically for one hour and then turn on the switch.

- Connection to main drains

If installing a new refrigerator, please ensure that it is connect to main drains.

- Shelf capacity distribution

Before you put the food into refrigerator, please open the refrigerator and reach normal operating temperature. Please keep the food evenly distributed while you store, it can ensure the cool air circulate to make the average temperature within the refrigerator. Raw and cooked foods need to be kept separate.

- Door lock device

About some models with a door lock, it is recommended that the key be removed from lock during normal working use. This will prevent bending and breaking of the key which could result in the lock having to be replaced. Removing the key will also prevent any possibility of accident locking when the door is open. This will prevent the door from closing non-completely and will cause the interior temperature to rise. If not checked in time, may waste food.

Thermostat Panel

Button function

:Compressor running indicated light.

:Page up key.

:Page down key.

SET :Code setting key: press slightly enter setting temperature, press for five second enter the code setting.

ON/OFF :Mains switch key: press slightly mean power on, press for five second mean Power off.

:Motor running indicated light: when it is on, the motor is running.

:Defrost indicated light: when it is on, the refrigerator is automatically defrost.

Specific features, please refer to the controller user manual.

Display code and function specification

Specific features, please refer to the controller user manual.

Initial operation and standby swith

Specific features, please refer to the controller user manual.

The controller maintenance reminder specification

: Maintenance reminder light

To prevent compressor overload, to remind the user timely maintenance of refrigerators, to ensure the refrigerator normal operation.

When the compressor run time-out,maintennace reminder light is on, The compressor will be protected by the controller program and automatic operation , to keep the refrigerator refrigeration. When the cabinet temperature reaches the set value, the light go out automatically.

The following reasons maintenance reminder light will turn on.

1.The door open frequently, cabinet temperature can not reach the set value for a long time , resulting in the long-running of the compressor.

2.Condenser dust, resulting in poor cooling effect. Please clean the condenser .

3.Plastic door seals dosed not tight, or the door is not closed. Please ensure that the door is closed, and the door seals closed tightly. If you find that door seals is damaged, please replace in time.

4.Store too much, or placed irregular obstruct cool air circulation.

5.Store high-temperature goods lead to the long-running of the compressor. Please remark do not put the high-temperature goods into cabinets!

6.Deforst not completely will obstruct the evaporation duct, lead to the long-running. Please defrost manually in time.

Controller wiring diagram

控制器接线图粘贴于此处

Daily maintain

All the maintain is responsible for our professional stuff, we advice that daily maintain that should be responsible for a professional maintenance man to keep your refrigerator in a best time.

Cleaning

Exterior: If you clean the exterior of refrigerator using the correct way frequently, it will retain an “As new” for many years. We suggest to clean the exterior using a soft cloth and soapy water every day, and wipe the refrigerator according to the texture of the stainless steel. Although stainless steel is a very strong and durable material, but not wipe according to the texture of the stainless steel will damage the smoothness of the exterior, affecting the appearance. Do not use abrasive cleansers and chemical cleansers, this will damage or corrode the exterior of the refrigerator. Protect the appearance of the refrigerator, it is recommended that wiping use a professional stainless steel care solution occasionally.

Interior: Cabinet must be cleaned regularly using a soft cloth and soapy water. As far as possible remove all shelves support strip, shelves and drawers.

Door seal clean and replace

Remove the door seal and clean it, and then put the seal in the middle of groove and pressed every corner, press the seal into the groove in the end.(example Figure 3)
If the door seal has been damaged or magnetic disappear, it need to replace the door seal.

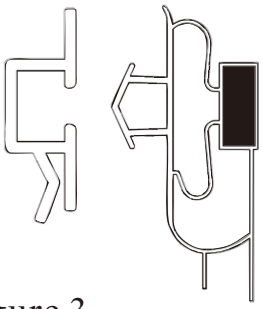


Figure 3

Condenser Cleaning

The condenser is a part of refrigeration system and placed in the system. It need to be cleaned approximately 6 times per year or be cleaned every month while using in a dusty environment. Disconnect mains supply before staring, and use a hard brush wipe the condenser's blade vertically. Please remark do not damage the blade or introduce any dust or dirt. If there are some dust or dirt on the blade, please clean with a vacuum cleanr. Reconnect mains supply while cleaning is finished.

Take care not to damage any electrical connections and cables during the removing and cleaning time. After cleaning, put all parts back in place and reconnect mains supply.

The condenser cleaning of worktable series products have some different from the others series, like figure 4. The first is to loosen the screws outside the door of mechanical room, remove the door of mechanical room. The second, loosen the screws on the pallet to pull the compressor outside the mechanical room. The third, clean the compressor and the condenser easily. And the last step, installed the compressor back according to the original step.

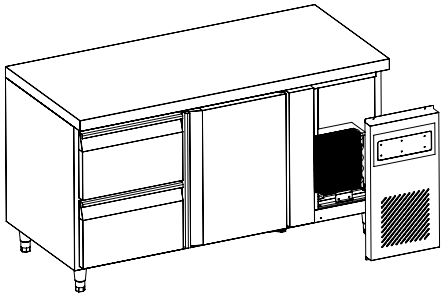


Figure 4.

Evaporator/Drain

Periodic inspection to en sure drain hole is not block.

Break down

In the event of a breakdown, please check the controller setting and fuse before calling service engineer. When you call the service engineer, please tell us the model and serial number, what write down on the nameplate. This will use all spare parts safely and legally.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

Daily use

1.This product should not be use by the person who is physically weak or slow response and children.Unless under the instruction or help of his or her responsible guardian.

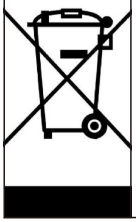
2.Children should be supervised to ensure that they do not play with the product.

3.If the power cord is damaged, it must be changed by the manufacturer, maintenance department or related professional person.

4.This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

5.The climate type of refrigerator is the sign of the cooling performance of the refrigerator while seasonal changes. Our refrigerator meets the requirements of 5(T) Climate type, that means our refrigerator can use in temperate environment, the environment of the Sub-temperate, subtropical environment and tropical environment.

6.Using the rap wipe refrigerators with water, warm water is the most suitable. Avoid rinsing refrigerator with water directly, especially the worktop. Otherwise it may cause electrical short circuit resulting in security incident.

	Correct Disposal of this product
	This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

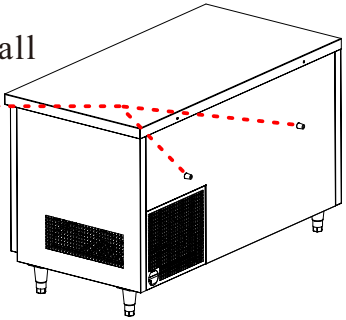
Common fault and How to deal

Breakdown	Reason	Contain of inspect	How to deal with it
Compressor breakdown	Voltage too low	Inspect the voltage	Add a power regulator
	Breakdown	Inspect the circuit	Inspect by multimeter
	*Compressor power off	Inspect the power line	Change or remove it
	Electric source break down	Inspect the thermostat	Change
	*Motor's winding of compressor break down	Inspect the machine winding	Change
	*Moveable parts of compressor is blocked	Inspect the compressor	Repair or change
Compressor can not stop	Temperature Detector of controller wrong place	Inspect the temperature detector whether on the probe clip	Adjusted and fixed the location of the detector
	*Controller breaking down	Inspect the controller	Change
	*Refrigerant is not enough or leaked	Inspect the freezing situation	Looking for the point for leaking reweld it or add the refrigerant
	*Freeing tube blocked	Inspect the freezing and filtrate temperature	Renew the filter and add refrigerant
	Freezing fan-cooled machine dose not work	Inspect the fan-cooled machine and its circuit	Change the fan-cooler machine and inspect the circuit
	*Compress with low efficiency or could not exhaust	Inspect the quality of compressor	Change one
	High frequency of opening door		Open the door less
	Too many thing in the box and bad ventilation	Inspect the quantity things in the box	Reduce the amount of thing in the box
	Too many dirty oil in condenser	Inspect the condenser	Clean the condenser
	Door seal leak air to outside	Door seal	Maintain and change door seal
	Environment temperature is too high	Inspect the environment temperature is above 32 degree or not	Improve the situation of ventilation or lower the environment temperature
	Preset temperature is too low	Inspect the preset temperature	Reset
Too much noise	The ground is not horizontal	Inspect the situation of under refrigerator	Replace
	Capillary tube crash some small accessory	Inspect capillary tube crash the small accessory or not	Clean up the tube
	Fan-cooled machine break down	Fan-cooled machine quality	Maintain or change
	*Condenser or lamina of motor inside blocked	Fan-cooled lamina	Remove the touching thing
	*Spring in compressor drop	Sound cause by crash from the machine	Change the compressor
	*The screw of compressor/fan-cooled machine/condenser loosed	Inspect the screw	Screw down the screw

The situation below is not broke down.
1.lower sound like stream sound when the refrigerator working.
2.compressor and condenser got not.
3.when the environment is too high and condense some bead outside the refrigerator, please wipe it up.

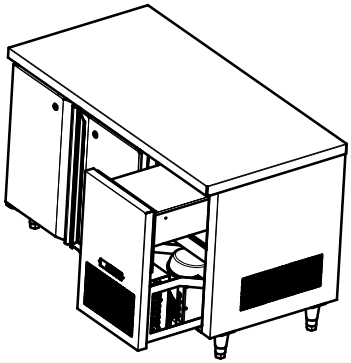
Worktable with monobloc system for evaporator series

In order to ensure the air convection, install two plastic column behind the worktable.

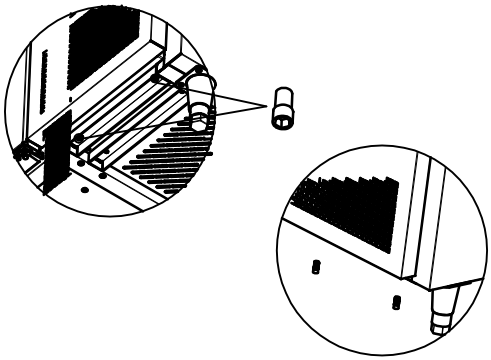


The following operation is allowed only by professional maintenance staff perform.

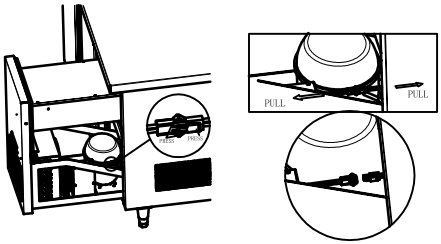
How to remove the monobloc system for evaporator?



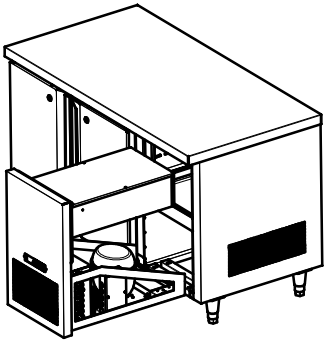
The first step, disconnect the power cord to prevent electric shock danger.



The second step, loosen and remove the two screws fixed on the chassis brace.



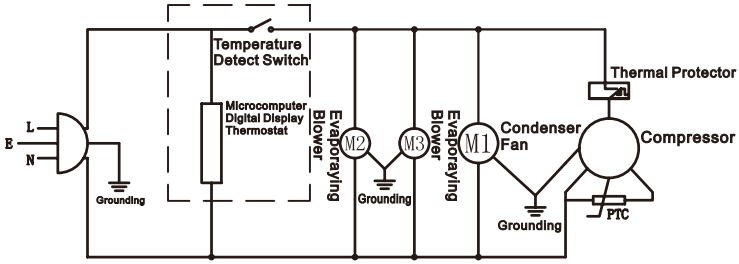
The third step, put the system out for 400mm, press and hold the connection terminal as shown.



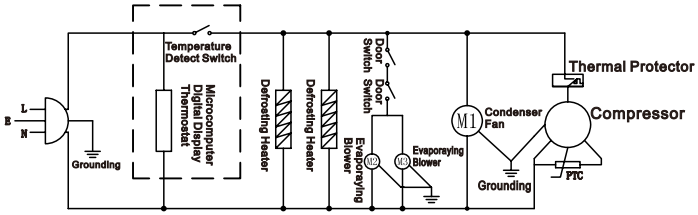
The fourth step, remove the monobloc system and put down near the worktable.

Circuit diagram

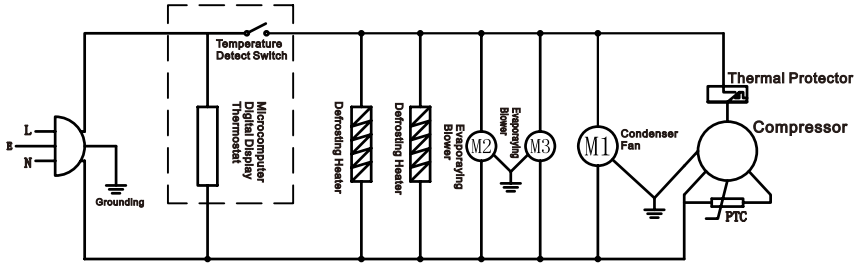
1.Fan cooling system worktable series circuit diagram:



2.Single door fan cooling system upright series circuit diagram



3.fan cooling system upright series circuit diagram



*Note: circuit diagram is stick on the product, if some modify of the circuit diagram, all subject to the diagram which stick on the product.

Warranty Card

Model specification: _____ Address of purchase: _____

Date of purchase: _____ Invoice number: _____

Serial number: _____

Warranty period : _____

Name of client: _____

Tel: _____

Address: _____

Client keep

1.After you purchase our product, place fill in and send it back to our factory.
2.Once you purchase one and your product have a one year guarantee. Once the wwarranty card is lost or tear down by yourself, the fee of maintain should not be include the guarantee service.
3.The situation that product need to be maintain when exceed the time limit of the warranty card, it the accessory can be retrieved, the fee of maintain will be cheaper.
4.The compressor that import from foreign break down is not included in the range of guarantee.

Warranty Card

Model specification: _____ Address of purchase: _____

Date of purchase: _____ Invoice number: _____

Serial number: _____

Warranty period : _____

Client name: _____

Tel: _____

Address: _____

Maintenance department keep

Maintain Replace Machine Part Register Card

Year	Month	Day	Breakdown	Name of replace parts	Quantity	Maintain Fee	Client Signature